



**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

Complete if Known

Application Number	10/695,577
Filing Date	10/28/2003
First Named Inventor	Edwin R. Chapman
Art Unit	1645
Examiner Name	--
Attorney Docket Number	960296.99004

Sheet	1	of	4
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10/28/2003

Edwin R. Chapman

1645

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Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
MS	1	J. BAI, et al. Membrane-embedded synaptotagmin penetrates cis or trans target membranes and clusters via a novel mechanism. J Biol Chem 275: 25427-35 (2000).	
	2	E.R. CHAPMAN. Synaptotagmin: a Ca(2+) sensor that triggers exocytosis? Nat Rev Mol Cell Biol 3: 498-508 (2002).	
	3	E.R. CHAPMAN, et al. A novel function for the second C2 domain of synaptotagmin. Ca2+-triggered dimerization. J Biol Chem 271:5844-49 (1996).	
	4	D. DEMEMES, et al. Efferent function of vestibular afferent endings? Similar localization of N-type calcium channels, synaptic vesicle and synaptic membrane-associated proteins. Neuroscience 98: 377-84 (2000).	
	5	M. FUKUDA, et al. Mechanism of the SDS-resistant synaptotagmin clustering mediated by the cysteine cluster at the interface between the transmembrane and spacer domains. J Biol Chem 276: 40319-25 (2001).	
	6	M. FUKUDA, et al. Synaptotagmin IX regulates Ca2+-dependent secretion in PC12 cells. J Biol Chem 277: 4601-04 (2002).	
	7	M. FUKUDA, et al. Distinct self-oligomerization activities of synaptotagmin family. Unique calcium-dependent oligomerization properties of synaptotagmin VII. J Biol Chem 275: 28180-85 (2000).	
	8	A. GUT, et al. Expression and localisation of synaptotagmin isoforms in endocrine β -cells: their function in insulin exocytosis. Journal of Cell Science 114(9): 1709-16 (2001).	
	9	P. JUZANS, et al. Synaptotagmin II immunoreactivity in normal and botulinum type-A treated mouse motor nerve terminals. Pflugers Arch 431: R283-84 (1996).	
	10	S. KOZAKI, et al. Ganglioside GT1b as a complementary receptor component for Clostridium botulinum neurotoxins. Microb Pathog 25: 91-99 (1998).	

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OTHER PRIOR ART—NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
MS	11	J.L. LEWIS, et al. The transmembrane domain of syntaxin 1A is critical for cytoplasmic domain protein-protein interactions. J Biol Chem 276: 15458-65 (2001).	
	12	L. LI, et al. Isolation of synaptotagmin as a receptor for types A and E botulinum neurotoxin and analysis of their comparative binding using a new microtiter plate assay. J Nat Toxins 7: 215-26 (1998).	
	13	M. MATTEOLI, et al. Exo-endocytotic recycling of synaptic vesicles in developing processes of cultured hippocampal neurons. J Cell Biol 117: 849-61 (1992).	
	14	T. NISHIKI, et al. Identification of protein receptor for Clostridium botulinum type B neurotoxin in rat brain synaptosomes. J Biol Chem 269: 10498-503 (1994).	
	15	T. NISHIKI, et al. The high-affinity binding of Clostridium botulinum type B neurotoxin to synaptotagmin II associated with gangliosides GT1b/GD1a. FEBS Lett 378: 253-57 (1996).	
	16	T. NISHIKI, et al. Binding of botulinum type B neurotoxin to Chinese hamster ovary cells transfected with rat synaptotagmin II cDNA. Neurosci Lett 208: 105-08 (1996).	
	17	S.L. OSBORNE, et al. Calcium-dependent oligomerization of synaptotagmins I and II. Synaptotagmins I and II are localized on the same synaptic vesicle and heterodimerize in the presence of calcium. J Biol Chem 274: 59-66 (1999).	
	18	M.S. PERIN, et al. Phospholipid binding by a synaptic vesicle protein homologous to the regulatory region of protein kinase C. Nature 345: 260-63 (1990).	
	19	G. SCHIAVO, et al. Tetanus and botulinum-B neurotoxins block neurotransmitter release by proteolytic cleavage of synaptobrevin. Nature 359: 832-35 (1992).	
	20	G. SCHIAVO, et al. Synaptotagmins: more isoforms than functions? Biochem Biophys Res Commun 248: 1-8 (1998).	

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<i>MA</i>	21	C.T. WANG, et al. Synaptotagmin modulation of fusion pore kinetics in regulated exocytosis of dense-core vesicles. Science 294: 1111-15 (2001).	
	22	GenBank Accession No. P24506.	
	23	GenBank Accession No. P24505.	
	24	GenBank Accession No. P47191.	
	25	GenBank Accession No. NP_005630.	
	26	GenBank Accession No. X52772.	
	27	GenBank Accession No. D37793.	
	28	GenBank Accession No. D37792.	
	29	GenBank Accession No. M64488.	
	30	GenBank Accession No. Q8N910.	

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		Application Number	10/695,577
		Filing Date	October 28, 2003
		First Named Inventor	Edward R. Chapman
		Art Unit	1645
		Examiner Name	N/A FORD
Sheet 2 of 2	Attorney Docket Number	960296.99004	

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MS		M. Fukuda, et al., "Inositol-1,3,4,5-tetrakisphosphate Binding to C2B Domain of IP4BP/Synaptotagmin II," J. Biol. Chem. 269(46):29206-29211, 1994.	
↓		J. T. Littleton and H. J. Bellen, "Synaptotagmin Controls and Modulates Synaptic-vesicle Fusion in a Ca ²⁺ -dependent Manner," TINS 18(4):177-183, 1995.	
↓		W. D. Matthew, et al., "Identification of a Synaptic Vesicle-specific Membrane Protein with a Wide Distribution in Neuronal and Neurosecretory Tissue," J. Cell Biol. 91:257-269, 1981.	
↓		Y. Shoji-Kasai, et al., "Neurotransmitter Release from Synaptotagmin-deficient Clonal Variants of PC12 Cells," Science 256(5065):1820-1823, 1992.	

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